

Gregory, Bernarr

From: PLUS
Sent: Wednesday, June 01, 2005 3:40 PM
To: Gregory, Bernarr
Subject: PLUS Results for 10761014

Here are the PLUS search results for 10761014.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to PLUS@uspto.gov.



10761014_QUAL
.txt



10761014_LIST.
txt



10761014_WES
T.txt



10761014_EAST
.txt



10761014.east



10761014_CLS.t
xt



10761014_CLST 10761014_WDS.
TTLES.txt



txt

10761014_QUAL.txt

5424688 78
5554987 78
5742208 78
5963608 78
6005419 78
5673212 78
5770977 78
5818215 78
6198353 78
6233296 78
4878035 78
4951237 78
5331293 78
5424664 78
5469479 78
5495505 78
5519343 78
5847559 78
6032028 78
6081226 78
6114914 78
6233288 78
6373344 78
6876261 78
5374903 73
6038427 73
6118345 69
5375146 69
5673007 69
5784413 69
6060917 69
6066967 69
5313173 69
5467294 69
5754437 69
5757652 69
5834985 69
6188253 69
5481230 69
5500871 69
5517156 69
5521533 69
5541929 69
5594735 69
5627500 69
5717402 69
5831481 69
5995812 69
6211807 69
6211807 69
4951004 69
4965531 69
4992743 69
5184092 69
5267189 69
5301367 69
5329253 69
5371765 69
5408201 69
5408687 69
5436600 69
5539346 69
5563535 69

10761014_QUAL.txt

5598440 69
5636149 69
5757239 69
5761101 69
5764113 69
5859570 69
5864492 69
5878335 69
5898325 69
6154640 69
6249179 69
4901265 69
4905177 69
4918748 69
4965533 69
4975699 69
5008900 69
5063361 69
5045817 69
5031131 69
5028887 69
5184093 69
5267182 69
5272454 69
5291428 69
5301366 69
5303412 69
5325396 69
5335106 69
5353311 69
5361046 69
5428308 69
5459418 69
5475627 69
5508661 69
5644602 69
5656976 69
5673051 69
5694430 69
5801589 69
5859883 69
5886752 69
5931891 69
5963607 69
6078629 69
6094101 69
6097765 69
6122326 69
6188900 69
6192220 69
6240127 69
6252464 69
6281823 69
6347325 69
6348841 69
6356597 69
6392499 69
6429693 69
6459404 69
6463112 69
6509800 69
6515553 69
6518801 69

6542044 69
6577201 69
6587863 69
6614813 69
6614866 69
6664819 69
6681235 69
6683918 69
6748407 69
6753737 69
6785345 69
6867625 69
6879815 69
6034573 64
6163223 64
5311511 64
5425057 64
6175280 64
6278330 64
6700600 64
6707419 64
6772181 64
5272452 64
5821817 63
4970523 63
4349789 63
5812927 63
5844948 63
5995563 63
4930141 63
4403342 63
4477919 63
4484153 63
4490688 63
4494090 63
5202906 63
5400269 63
5550866 63
4408349 63
4454486 63
5016202 63
5018151 63
5230097 63
5376938 63
5740521 63
5926492 63
6005446 63
4438528 63
4449250 63
4602225 63
4800341 63
4855946 63
4885554 63
5021754 63
5023571 63
5343168 63
5483559 63
5490172 63
5493243 63
5717722 63
5721514 63
5825813 63
5894592 63

10761014_QUAL.txt

5952834 63
5991605 63
6057690 63
6091931 63
6108151 63
6240556 63
4249138 63
4270209 63
4339826 63
4446446 63
4516170 63
4520474 63
4536718 63
4573023 63
4599579 63
4755774 63
4816774 63
4882549 63
4885553 63
4912432 63
4914405 63
4918403 63
5003621 63
5216389 63
5258720 63
5392460 63
5428829 63
5446422 63
5463360 63
5467373 63
5479136 63
5499029 63
5535247 63
5546433 63
5548244 63
5584062 63
5594754 63
5710983 63
5717730 63
5745843 63
5748623 63
5796535 63
5838732 63
5870439 63
5917864 63
5955783 63
5960364 63
5966258 63
6008900 63
6047029 63
6134286 63
6134282 63
6140851 63
6212936 63
6212936 63
3619802 63
3657664 63
3641434 63
4031549 63
4038689 63
4179670 63
4320355 63
4367558 63

10761014_QUAL.txt

4387401 63
4388597 63
4422096 63
4442747 63
4481489 63
4490813 63
4510440 63
4513448 63
4533866 63
4563657 63
4609881 63
4623852 63
4630004 63
4630217 63
4760586 63
4771465 63
4795978 63
4797926 63
4814726 63
4849993 63
4868494 63
4879514 63
4893353 63
4904956 63
4912526 63
4916383 63
4926140 63
4931749 63
4933890 63
4935891 63
4944025 63
4952877 63
4994762 63
5015971 63
5070310 63
5055802 63
5053722 63
5034703 63
5200982 63
5214795 63
5220684 63
5230088 63
5235616 63
5256980 63
5289141 63
5305362 63
5339049 63
5451910 63

PLUS Search Results for S/N 10761014, Searched June 01, 2005

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

5424688	4951004	5673051	4970523	4520474	4320355
5554987	4965531	5694430	4349789	4536718	4367558
5742208	4992743	5801589	5812927	4573023	4387401
5963608	5184092	5859883	5844948	4599579	4388597
6005419	5267189	5886752	5995563	4755774	4422096
5673212	5301367	5931891	4930141	4816774	4442747
5770977	5329253	5963607	4403342	4882549	4481489
5818215	5371765	6078629	4477919	4885553	4490813
6198353	5408201	6094101	4484153	4912432	4510440
6233296	5408687	6097765	4490688	4914405	4513448
4878035	5436600	6122326	4494090	4918403	4533866
4951237	5539346	6188900	5202906	5003621	4563657
5331293	5563535	6192220	5400269	5216389	4609881
5424664	5598440	6240127	5550866	5258720	4623852
5469479	5636149	6252464	4408349	5392460	4630004
5495505	5757239	6281823	4454486	5428829	4630217
5519343	5761101	6347325	5016202	5446422	4760586
5847559	5764113	6348841	5018151	5463360	4771465
6032028	5859570	6356597	5230097	5467373	4795978
6081226	5864492	6392499	5376938	5479136	4797926
6114914	5878335	6429693	5740521	5499029	4814726
6233288	5898325	6459404	5926492	5535247	4849993
6373344	6154640	6463112	6005446	5546433	4868494
6876261	6249179	6509800	4438528	5548244	4879514
5374903	4901265	6515553	4449250	5584062	4893353
6038427	4905177	6518801	4602225	5594754	4904956
6118345	4918748	6542044	4800341	5710983	4912526
5375146	4965533	6577201	4855946	5717730	4916383
5673007	4975699	6587863	4885554	5745843	4926140
5784413	5008900	6614813	5021754	5748623	4931749
6060917	5063361	6614866	5023571	5796535	4933890
6066967	5045817	6664819	5343168	5838732	4935891
5313173	5031131	6681235	5483559	5870439	4944025
5467294	5028887	6683918	5490172	5917864	4952877
5754437	5184093	6748407	5493243	5955783	4994762
5757652	5267182	6753737	5717722	5960364	5015971
5834985	5272454	6785345	5721514	5966258	5070310
6188253	5291428	6867625	5825813	6008900	5055802
5481230	5301366	6879815	5894592	6047029	5053722
5500871	5303412	6034573	5952834	6134286	5034703
5517156	5325396	6163223	5991605	6134282	5200982
5521533	5335106	5311511	6057690	6140851	5214795
5541929	5353311	5425057	6091931	6212936	5220684
5594735	5361046	6175280	6108151	6212936	5230088
5627500	5428308	6278330	6240556	3619802	5235616
5717402	5459418	6700600	4249138	3657664	5256980
5831481	5475627	6707419	4270209	3641434	5289141
5995812	5508661	6772181	4339826	4031549	5305362
6211807	5644602	5272452	4446446	4038689	5339049
6211807	5656976	5821817	4516170	4179670	5451910

10761014_WEST.txt

(5424688 5554987 5742208 5963608 6005419 5673212 5770977 5818215 6198353 6233296
4878035 4951237 5331293 5424664 5469479 5495505 5519343 5847559 6032028 6081226
6114914 6233288 6373344 6876261 5374903 6038427 6118345 5375146 5673007 5784413
6060917 6066967 5313173 5467294 5754437 5757652 5834985 6188253 5481230 5500871
5517156 5521533 5541929 5594735 5627500 5717402 5831481 5995812 6211807 6211807).pn.
(4951004 4965531 4992743 5184092 5267189 5301367 5329253 5371765 5408201 5408687
5436600 5539346 5563535 5598440 5636149 5757239 5761101 5764113 5859570 5864492
5878335 5898325 6154640 6249179 4901265 4905177 4918748 4965533 4975699 5008900
5063361 5045817 5031131 5028887 5184093 5267182 5272454 5291428 5301366 5303412
5325396 5335106 5353311 5361046 5428308 5459418 5475627 5508661 5644602 5656976).pn.
(5673051 5694430 5801589 5859883 5886752 5931891 5963607 6078629 6094101 6097765
6122326 6188900 6192220 6240127 6252464 6281823 6347325 6348841 6356597 6392499
6429693 6459404 6463112 6509800 6515553 6518801 6542044 6577201 6587863 6614813
6614866 6664819 6681235 6683918 6748407 6753737 6785345 6867625 6879815 6034573
6163223 5311511 5425057 6175280 6278330 6700600 6707419 6772181 5272452 5821817).pn.
(4970523 4349789 5812927 5844948 5995563 4930141 4403342 4477919 4484153 4490688
4494090 5202906 5400269 5550866 4408349 4454486 5016202 5018151 5230097 5376938
5740521 5926492 6005446 4438528 4449250 4602225 4800341 4855946 4885554 5021754
5023571 5343168 5483559 5490172 5493243 5717722 5721514 5825813 5894592 5952834
5991605 6057690 6091931 6108151 6240556 4249138 4270209 4339826 4446446 4516170).pn.
(4520474 4536718 4573023 4599579 4755774 4816774 4882549 4885553 4912432 4914405
4918403 5003621 5216389 5258720 5392460 5428829 5446422 5463360 5467373 5479136
5499029 5535247 5546433 5548244 5584062 5594754 5710983 5717730 5745843 5748623
5796535 5838732 5870439 5917864 5955783 5960364 5966258 6008900 6047029 6134286
6134282 6140851 6212936 6212936 3619802 3657664 3641434 4031549 4038689 4179670).pn.
(4320355 4367558 4387401 4388597 4422096 4442747 4481489 4490813 4510440 4513448
4533866 4563657 4609881 4623852 4630004 4630217 4760586 4771465 4795978 4797926
4814726 4849993 4868494 4879514 4893353 4904956 4912526 4916383 4926140 4931749
4933890 4935891 4944025 4952877 4994762 5015971 5070310 5055802 5053722 5034703
5200982 5214795 5220684 5230088 5235616 5256980 5289141 5305362 5339049 5451910).pn.

(5424688
5554987
5742208
5963608
6005419
5673212
5770977
5818215
6198353
6233296
4878035
4951237
5331293
5424664
5469479
5495505
5519343
5847559
6032028
6081226
6114914
6233288
6373344
6876261
5374903
6038427
6118345
5375146
5673007
5784413
6060917
6066967
5313173
5467294
5754437
5757652
5834985
6188253
5481230
5500871
5517156
5521533
5541929
5594735
5627500
5717402
5831481
5995812
6211807
6211807).pn.
(4951004
4965531
4992743
5184092
5267189
5301367
5329253
5371765
5408201
5408687
5436600
5539346
5563535

5598440
5636149
5757239
5761101
5764113
5859570
5864492
5878335
5898325
6154640
6249179
4901265
4905177
4918748
4965533
4975699
5008900
5063361
5045817
5031131
5028887
5184093
5267182
5272454
5291428
5301366
5303412
5325396
5335106
5353311
5361046
5428308
5459418
5475627
5508661
5644602
5656976).pn.
(5673051
5694430
5801589
5859883
5886752
5931891
5963607
6078629
6094101
6097765
6122326
6188900
6192220
6240127
6252464
6281823
6347325
6348841
6356597
6392499
6429693
6459404
6463112
6509800
6515553
6518801

6542044
6577201
6587863
6614813
6614866
6664819
6681235
6683918
6748407
6753737
6785345
6867625
6879815
6034573
6163223
5311511
5425057
6175280
6278330
6700600
6707419
6772181
5272452
5821817).pn.
(4970523
4349789
5812927
5844948
5995563
4930141
4403342
4477919
4484153
4490688
4494090
5202906
5400269
5550866
4408349
4454486
5016202
5018151
5230097
5376938
5740521
5926492
6005446
4438528
4449250
4602225
4800341
4855946
4885554
5021754
5023571
5343168
5483559
5490172
5493243
5717722
5721514
5825813
5894592

5952834
5991605
6057690
6091931
6108151
6240556
4249138
4270209
4339826
4446446
4516170).pn.
(4520474
4536718
4573023
4599579
4755774
4816774
4882549
4885553
4912432
4914405
4918403
5003621
5216389
5258720
5392460
5428829
5446422
5463360
5467373
5479136
5499029
5535247
5546433
5548244
5584062
5594754
5710983
5717730
5745843
5748623
5796535
5838732
5870439
5917864
5955783
5960364
5966258
6008900
6047029
6134286
6134282
6140851
6212936
6212936
3619802
3657664
3641434
4031549
4038689
4179670).pn.
(4320355
4367558

4387401
4388597
4422096
4442747
4481489
4490813
4510440
4513448
4533866
4563657
4609881
4623852
4630004
4630217
4760586
4771465
4795978
4797926
4814726
4849993
4868494
4879514
4893353
4904956
4912526
4916383
4926140
4931749
4933890
4935891
4944025
4952877
4994762
5015971
5070310
5055802
5053722
5034703
5200982
5214795
5220684
5230088
5235616
5256980
5289141
5305362
5339049
5451910).pn.

10761014_CLS.txt
Most Frequently Occurring Classifications of Patents Returned
From A Search of 10761014 on June 01, 2005

Original Classifications

15	331/16
14	331/1A
14	455/76
11	708/276
10	331/2
7	327/105
7	331/18
7	331/4
7	375/308
6	708/271
5	327/106
5	375/376
4	327/107
4	331/1R
4	331/25
4	332/103
3	331/17
3	332/100
3	332/117
3	342/22
3	348/731
3	375/326
3	375/344
3	375/373
3	455/260
2	73/19.03
2	324/309
2	324/613
2	324/76.27
2	324/76.33
2	327/156
2	331/10
2	331/11
2	331/14
2	331/3
2	331/96
2	332/101
2	332/112
2	332/128
2	342/200
2	342/202
2	360/51
2	370/337
2	375/222
2	375/296
2	375/297
2	375/316
2	375/350
2	375/377
2	455/182.2
2	455/182.3

Cross-Reference Classifications

61	331/25
25	327/105
24	455/260
21	331/17
20	375/376

19 331/16
19 331/18
18 327/106
18 455/76
16 327/107
14 708/276
13 332/127
11 331/1A
10 332/144
10 455/183.1
9 327/156
9 375/308
8 331/23
8 332/103
8 708/271
7 331/14
7 331/19
7 332/128
7 455/113
6 331/178
6 331/2
6 331/34
6 331/4
6 375/303
5 324/76.23
5 327/159
5 331/179
5 331/DIG 2
5 375/327
5 375/371
5 455/118
5 455/119
5 455/165.1
5 708/270
4 324/76.27
4 327/157
4 329/304
4 331/10
4 331/27
4 331/36C
4 331/40
4 348/735
4 375/329
4 375/344
4 375/345
4 455/110
4 455/112
4 455/192.2
4 455/315
4 455/87
3 327/113
3 327/115
3 327/129
3 327/147
3 327/551
3 331/177R
3 331/177V
3 331/30
3 331/31
3 331/43
3 331/66
3 332/119
3 342/118

3 342/175
 3 342/195
 3 375/216
 3 375/271
 3 375/272
 3 375/279
 3 375/373
 3 375/375
 3 377/48
 3 455/12.1
 3 455/192.3
 3 455/209
 3 455/316
 3 455/324
 3 455/67.16
 2 73/632
 2 73/866.5
 2 324/307
 2 324/314
 2 324/326
 2 324/332
 2 324/344
 2 324/76.12
 2 324/76.19
 2 324/76.35
 2 324/76.43
 2 324/76.53
 2 327/117
 2 327/119
 2 327/231
 2 327/355
 2 327/7
 2 327/9
 2 329/306
 2 329/323
 2 331/117D
 2 331/12
 2 331/158
 2 331/175
 2 331/176
 2 331/1R
 2 331/22
 2 331/38
 2 331/47
 2 331/56
 2 331/74
 2 331/77
 2 331/78
 2 331/94.1
 2 332/101
 2 332/104
 2 332/123
 2 332/124
 2 332/145
 2 341/147
 2 342/134
 2 342/135
 2 342/173
 2 342/204
 2 342/27
 2 360/61
 2 370/516
 2 375/130

10761014_CLS.txt

2 375/140
 2 375/146
 2 375/147
 2 375/274
 2 375/298
 2 375/302
 2 375/306
 2 375/307
 2 375/317
 2 375/324
 2 375/326
 2 377/44
 2 455/126
 2 455/182.2
 2 455/182.3
 2 455/183.2
 2 455/208
 2 455/304
 2 455/310
 2 455/313
 2 455/42
 2 455/67.13
 2 455/71
 2 455/75
 2 455/77
 2 455/84
 2 455/86
 2 708/272
 2 708/313
 2 725/68

Combined Classifications

65 331/25
 34 331/16
 32 327/105
 32 455/76
 27 455/260
 26 331/18
 25 331/1A
 25 375/376
 25 708/276
 24 331/17
 23 327/106
 20 327/107
 16 331/2
 16 375/308
 14 332/127
 14 708/271
 13 331/4
 12 332/103
 11 327/156
 11 455/183.1
 10 332/144
 9 331/14
 9 331/23
 9 332/128
 7 331/19
 7 375/344
 7 455/113
 6 324/76.27
 6 331/10
 6 331/178
 6 331/1R

6 331/34
6 375/303
6 375/327
6 375/373
6 455/119
6 708/270
5 324/76.23
5 327/159
5 329/304
5 331/179
5 331/40
5 331/DIG 2
5 375/326
5 375/329
5 375/371
5 455/110
5 455/118
5 455/165.1
5 455/192.2
5 455/315
4 327/157
4 331/27
4 331/36C
4 332/101
4 332/117
4 332/119
4 348/731
4 348/735
4 375/345
4 375/375
4 377/48
4 455/112
4 455/12.1
4 455/182.2
4 455/182.3
4 455/209
4 455/87
3 324/76.19
3 327/113
3 327/115
3 327/129
3 327/147
3 327/551
3 327/7
3 331/11
3 331/176
3 331/177R
3 331/177V
3 331/30
3 331/31
3 331/43
3 331/66
3 331/96
3 332/100
3 332/123
3 332/124
3 341/147
3 342/118
3 342/175
3 342/195
3 342/202
3 342/22
3 370/516

3 375/146
 3 375/216
 3 375/222
 3 375/271
 3 375/272
 3 375/279
 3 375/296
 3 375/377
 3 455/183.2
 3 455/192.3
 3 455/316
 3 455/324
 3 455/67.16
 3 455/86
 3 708/313
 2 73/19.03
 2 73/632
 2 73/866.5
 2 324/307
 2 324/309
 2 324/314
 2 324/326
 2 324/332
 2 324/344
 2 324/613
 2 324/76.12
 2 324/76.33
 2 324/76.35
 2 324/76.43
 2 324/76.53
 2 327/117
 2 327/119
 2 327/12
 2 327/158
 2 327/231
 2 327/355
 2 327/9
 2 329/306
 2 329/323
 2 331/107SL
 2 331/117D
 2 331/12
 2 331/158
 2 331/175
 2 331/22
 2 331/3
 2 331/37
 2 331/38
 2 331/41
 2 331/47
 2 331/56
 2 331/74
 2 331/77
 2 331/78
 2 331/94.1
 2 332/104
 2 332/112
 2 332/125
 2 332/145
 2 341/118
 2 342/128
 2 342/134
 2 342/135

2 342/173
2 342/200
2 342/204
2 342/27
2 360/51
2 360/61
2 370/337
2 372/18
2 375/130
2 375/140
2 375/147
2 375/274
2 375/297
2 375/298
2 375/302
2 375/305
2 375/306
2 375/307
2 375/316
2 375/317
2 375/324
2 375/346
2 375/350
2 375/367
2 375/372
2 377/44
2 377/47
2 455/126
2 455/164.2
2 455/208
2 455/226.1
2 455/265
2 455/3.02
2 455/304
2 455/310
2 455/313
2 455/42
2 455/67.13
2 455/71
2 455/75
2 455/77
2 455/84
2 702/69
2 702/75
2 708/272
2 725/68

Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 10761014 on June 01, 2005

65	331/25	(4 OR, 61 XR)
	Class 331 :	OSCILLATORS
	331/1R	AUTOMATIC FREQUENCY STABILIZATION USING A PHASE OR FREQUENCY SENSING MEANS
	331/18	.With reference oscillator or source
	331/25	..Signal or phase comparator
34	331/16	(15 OR, 19 XR)
	Class 331 :	OSCILLATORS
	331/1R	AUTOMATIC FREQUENCY STABILIZATION USING A PHASE OR FREQUENCY SENSING MEANS
	331/16	.Tuning compensation
32	327/105	(7 OR, 25 XR)
	Class 327 :	MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR DEVICES, CIRCUITS, AND SYSTEMS
	327/100	SIGNAL CONVERTING, SHAPING, OR GENERATING
	327/105	..Synthesizer
32	455/76	(14 OR, 18 XR)
	Class 455 :	TELECOMMUNICATIONS
	455/73	TRANSMITTER AND RECEIVER AT SAME STATION (E.G., TRANSCIVER)
	455/75	.With frequency stabilization (e.g., automatic frequency control)
	455/76	..Synthesizer
27	455/260	(3 OR, 24 XR)
	Class 455 :	TELECOMMUNICATIONS
	455/130	RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
	455/230	.Local control of receiver operation
	455/255	..Local oscillator frequency control
	455/257	...Automatic
	455/258Utilizing particular local oscillator control
	455/259Reference oscillator or source
	455/260Phase lock loop or frequency synthesizer
26	331/18	(7 OR, 19 XR)
	Class 331 :	OSCILLATORS
	331/1R	AUTOMATIC FREQUENCY STABILIZATION USING A PHASE OR FREQUENCY SENSING MEANS
	331/18	.With reference oscillator or source
25	331/1A	(14 OR, 11 XR)
	Class 331 :	OSCILLATORS
	331/1R	AUTOMATIC FREQUENCY STABILIZATION USING A PHASE OR FREQUENCY SENSING MEANS
	331/1A	.AFC with logic elements
25	375/376	(5 OR, 20 XR)
	Class 375 :	PULSE OR DIGITAL COMMUNICATIONS
	375/354	SYNCHRONIZERS
	375/371	.Phase displacement, slip or jitter correction
	375/373	..Phase locking
	375/376	...Phase locked loop

10761014_CLSTITLES.txt

- 25 708/276 (11 OR, 14 XR)
 Class 708 : ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING
 AND CALCULATING
 708/100 ELECTRICAL DIGITAL CALCULATING COMPUTER
 708/200 .Particular function performed
 708/270 ..Function generation
 708/276 ...Trigonometric
- 24 331/17 (3 OR, 21 XR)
 Class 331 : OSCILLATORS
 331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
 OR FREQUENCY SENSING MEANS
 331/17 .Particular error voltage control (e.g.,
 intergrating network)
- 23 327/106 (5 OR, 18 XR)
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
 DEVICES, CIRCUITS, AND SYSTEMS
 327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
 327/105 .Synthesizer
 327/106 ..Having stored waveform data (e.g., in ROM,
 etc.)
- 20 327/107 (4 OR, 16 XR)
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
 DEVICES, CIRCUITS, AND SYSTEMS
 327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
 327/105 .Synthesizer
 327/107 ..Having digital device (e.g., logic gate,
 flip-flop, etc.)
- 16 331/2 (10 OR, 6 XR)
 Class 331 : OSCILLATORS
 331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
 OR FREQUENCY SENSING MEANS
 331/2 .Plural oscillators controlled
- 16 375/308 (7 OR, 9 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/295 TRANSMITTERS
 375/302 .Angle modulation
 375/308 ..Phase shift keying
- 14 332/127 (1 OR, 13 XR)
 Class 332 : MODULATORS
 332/117 FREQUENCY MODULATOR
 332/123 .Including stabilization or alternatively
 distortion, noise or other interference prevention,
 reduction, or compensation
 332/126 ..Automatic frequency stabilization or control
 332/127 ...Phase or frequency locked loop
- 14 708/271 (6 OR, 8 XR)
 Class 708 : ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING
 AND CALCULATING
 708/100 ELECTRICAL DIGITAL CALCULATING COMPUTER
 708/200 .Particular function performed
 708/270 ..Function generation
 708/271 ...Direct digital frequency synthesizer
- 13 331/4 (7 OR, 6 XR)

```

Class 331 : OSCILLATORS
331/1R  AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
        OR FREQUENCY SENSING MEANS
331/4   .Search sweep of oscillator

12 332/103 (4 OR, 8 XR)
Class 332 : MODULATORS
332/103 PHASE SHIFT KEYING MODULATOR OR QUADRATURE
        AMPLITUDE MODULATOR

11 327/156 (2 OR, 9 XR)
Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
        DEVICES, CIRCUITS, AND SYSTEMS
327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
327/141 .Synchronizing
327/155 ..With feedback
327/156 ...Phase lock loop

11 455/183.1 (1 OR, 10 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
        CONVERTER
455/150.1 .Signal selection based on frequency (e.g.,
        tuning)
455/179.1 ..Channel or station selection
455/183.1 ...With frequency synthesizer

10 332/144 (0 OR, 10 XR)
Class 332 : MODULATORS
332/144 PHASE MODULATOR

9 331/14 (2 OR, 7 XR)
Class 331 : OSCILLATORS
331/1R  AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
        OR FREQUENCY SENSING MEANS
331/14  .With intermittent comparison controls

9 331/23 (1 OR, 8 XR)
Class 331 : OSCILLATORS
331/1R  AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
        OR FREQUENCY SENSING MEANS
331/18  .With reference oscillator or source
331/23  ..Sensing modulation (e.g., frequency
        modulation controlled oscillator

9 332/128 (2 OR, 7 XR)
Class 332 : MODULATORS
332/117 FREQUENCY MODULATOR
332/123 .Including stabilization or alternatively
        distortion, noise or other interference prevention,
        reduction, or compensation
332/126 ..Automatic frequency stabilization or control
332/127 ...Phase or frequency locked loop
332/128 ....Modulating signal applied to plural
        elements of the loop

7 331/19 (0 OR, 7 XR)
Class 331 : OSCILLATORS
331/1R  AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
        OR FREQUENCY SENSING MEANS
331/18  .With reference oscillator or source
331/19  ..Spectrum reference source

```

10761014_CLSTITLES.txt

```

7 375/344      (3 OR, 4 XR)
   Class 375 : PULSE OR DIGITAL COMMUNICATIONS
   375/316    RECEIVERS
   375/344    .Automatic frequency control

7 455/113      (0 OR, 7 XR)
   Class 455 : TELECOMMUNICATIONS
   455/91     TRANSMITTER
   455/110    .Angle modulation
   455/113    ..With frequency control

6 324/76.27    (2 OR, 4 XR)
   Class 324 : ELECTRICITY: MEASURING AND TESTING
   324/76.11  MEASURING, TESTING, OR SENSING ELECTRICITY, PER
               SE
   324/76.12  .Analysis of complex waves
   324/76.19  ..Frequency spectrum analyzer
   324/76.26  ...Scanning-panoramic receiver
   324/76.27  ....With particular sweep circuit

6 331/10       (2 OR, 4 XR)
   Class 331 : OSCILLATORS
   331/1R     AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
               OR FREQUENCY SENSING MEANS
   331/10     .Plural A.F.S. for a single oscillator

6 331/178      (0 OR, 6 XR)
   Class 331 : OSCILLATORS
   331/177R   WITH FREQUENCY ADJUSTING MEANS
   331/178    .Cyclic frequency sweeping means (e.g.,
               vibrato)

6 331/1R       (4 OR, 2 XR)
   Class 331 : OSCILLATORS
   331/1R     AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
               OR FREQUENCY SENSING MEANS

6 331/34       (0 OR, 6 XR)
   Class 331 : OSCILLATORS
   331/1R     AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
               OR FREQUENCY SENSING MEANS
   331/34     .Particular frequency control means

6 375/303      (0 OR, 6 XR)
   Class 375 : PULSE OR DIGITAL COMMUNICATIONS
   375/295    TRANSMITTERS
   375/302    .Angle modulation
   375/303    ..Frequency shift keying

6 375/327      (1 OR, 5 XR)
   Class 375 : PULSE OR DIGITAL COMMUNICATIONS
   375/316    RECEIVERS
   375/322    .Angle modulation
   375/324    ..Particular demodulator
   375/327    ...Phase locked loop

6 375/373      (3 OR, 3 XR)
   Class 375 : PULSE OR DIGITAL COMMUNICATIONS
   375/354    SYNCHRONIZERS
   375/371    .Phase displacement, slip or jitter correction
   375/373    ..Phase locking

```

10761014_CLSTITLES.txt

- 6 455/119 (1 OR, 5 XR)
 Class 455 : TELECOMMUNICATIONS
 455/91 TRANSMITTER
 455/119 .Carrier frequency stabilization

- 6 708/270 (1 OR, 5 XR)
 Class 708 : ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING
 AND CALCULATING
 708/100 ELECTRICAL DIGITAL CALCULATING COMPUTER
 708/200 .Particular function performed
 708/270 ..Function generation

- 5 324/76.23 (0 OR, 5 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/76.11 MEASURING, TESTING, OR SENSING ELECTRICITY, PER
 SE
 324/76.12 .Analysis of complex waves
 324/76.19 ..Frequency spectrum analyzer
 324/76.23 ...With mixer

- 5 327/159 (0 OR, 5 XR)
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
 DEVICES, CIRCUITS, AND SYSTEMS
 327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
 327/141 .Synchronizing
 327/155 ..With feedback
 327/156 ...Phase lock loop
 327/159With digital element

- 5 329/304 (1 OR, 4 XR)
 Class 329 : DEMODULATORS
 329/304 PHASE SHIFT KEYING OR QUADRATURE AMPLITUDE
 DEMODULATOR

- 5 331/179 (0 OR, 5 XR)
 Class 331 : OSCILLATORS
 331/177R WITH FREQUENCY ADJUSTING MEANS
 331/179 .Step-frequency change (e.g., band selection,
 frequency-shift keying)

- 5 331/40 (1 OR, 4 XR)
 Class 331 : OSCILLATORS
 331/37 BEAT FREQUENCY
 331/40 .Frequency or amplitude adjustment or control

- 5 331/DIG 2 (0 OR, 5 XR)
 Class 331 : OSCILLATORS
 331/DIG 2 Phase locked loop having lock indicating or
 detecting means

- 5 375/326 (3 OR, 2 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/316 RECEIVERS
 375/322 .Angle modulation
 375/324 ..Particular demodulator
 375/326 ...Carrier recovery circuit or carrier tracking

- 5 375/329 (1 OR, 4 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/316 RECEIVERS

```

375/322      .Angle modulation
375/329      ..Phase shift keying

5  375/371      (0 OR, 5 XR)
    Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/354      SYNCHRONIZERS
375/371      .Phase displacement, slip or jitter correction

5  455/110      (1 OR, 4 XR)
    Class 455 : TELECOMMUNICATIONS
455/91      TRANSMITTER
455/110      .Angle modulation

5  455/118      (0 OR, 5 XR)
    Class 455 : TELECOMMUNICATIONS
455/91      TRANSMITTER
455/118      .Frequency conversion

5  455/165.1    (0 OR, 5 XR)
    Class 455 : TELECOMMUNICATIONS
455/130      RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
              CONVERTER
455/150.1    .Signal selection based on frequency (e.g.,
              tuning)
455/161.1    ..Frequency scanning
455/165.1    ...With frequency synthesizer

5  455/192.2    (1 OR, 4 XR)
    Class 455 : TELECOMMUNICATIONS
455/130      RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
              CONVERTER
455/150.1    .Signal selection based on frequency (e.g.,
              tuning)
455/192.1    ..With frequency control
455/192.2    ...Automatic (AFC)

5  455/315      (1 OR, 4 XR)
    Class 455 : TELECOMMUNICATIONS
455/130      RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
              CONVERTER
455/313      .Frequency modifying or conversion
455/314      ..Plural separate successive conversions
455/315      ...With plural separate local oscillators

4  327/157      (0 OR, 4 XR)
    Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
              DEVICES, CIRCUITS, AND SYSTEMS
327/100      SIGNAL CONVERTING, SHAPING, OR GENERATING
327/141      .Synchronizing
327/155      ..With feedback
327/156      ...Phase lock loop
327/157      ....With charge pump

4  331/27      (0 OR, 4 XR)
    Class 331 : OSCILLATORS
331/1R      AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
              OR FREQUENCY SENSING MEANS
331/18      .With reference oscillator or source
331/25      ..Signal or phase comparator
331/27      ...Plural active element (e.g., triodes)

4  331/36C      (0 OR, 4 XR)

```

Class 331 : OSCILLATORS
 331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
 OR FREQUENCY SENSING MEANS
 331/34 .Particular frequency control means
 331/36R ..Reactance device (e.g., variable capacitors,
 saturable inductors, reactance tubes, etc.)
 331/36C ...Capacitor controlled AFC

4 332/101 (2 OR, 2 XR)
 Class 332 : MODULATORS
 332/100 FREQUENCY SHIFT KEYING MODULATOR OR MINIMUM
 SHIFT KEYING MODULATOR
 332/101 .Including logic element (e.g., logic gate or
 flip-flop)

4 332/117 (3 OR, 1 XR)
 Class 332 : MODULATORS
 332/117 FREQUENCY MODULATOR

4 332/119 (1 OR, 3 XR)
 Class 332 : MODULATORS
 332/117 FREQUENCY MODULATOR
 332/119 .Plural modulation

4 348/731 (3 OR, 1 XR)
 Class 348 : TELEVISION
 348/725 RECEIVER CIRCUITRY
 348/731 .Tuning

4 348/735 (0 OR, 4 XR)
 Class 348 : TELEVISION
 348/725 RECEIVER CIRCUITRY
 348/735 .Automatic frequency control

4 375/345 (0 OR, 4 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/316 RECEIVERS
 375/345 .Automatic gain control

4 375/375 (1 OR, 3 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/354 SYNCHRONIZERS
 375/371 .Phase displacement, slip or jitter correction

 375/373 ..Phase locking
 375/375 ...With frequency detector and phase detector

4 377/48 (1 OR, 3 XR)
 Class 377 : ELECTRICAL PULSE COUNTERS, PULSE DIVIDERS, OR
 SHIFT REGISTERS: CIRCUITS AND SYSTEMS
 377/27 SYSTEMS
 377/47 .Pulse multiplication or division
 377/48 ..Multiplication or division by a fraction

4 455/112 (0 OR, 4 XR)
 Class 455 : TELECOMMUNICATIONS
 455/91 TRANSMITTER
 455/110 .Angle modulation
 455/112 ..With frequency multiplication or division

4 455/12.1 (1 OR, 3 XR)
 Class 455 : TELECOMMUNICATIONS

- 455/7 CARRIER WAVE REPEATER OR RELAY SYSTEM (I.E.,
RETRANSMISSION OF SAME INFORMATION)
455/11.1 .Portable or mobile repeater
455/12.1 ..Space satellite
- 4 455/182.2 (2 OR, 2 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/150.1 .Signal selection based on frequency (e.g.,
tuning)
455/179.1 ..Channel or station selection
455/182.1 ...With frequency control
455/182.2Automatic (AFC)
- 4 455/182.3 (2 OR, 2 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/150.1 .Signal selection based on frequency (e.g.,
tuning)
455/179.1 ..Channel or station selection
455/182.3 ...Fine tuning
- 4 455/209 (1 OR, 3 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/205 .Frequency or phase modulation
455/208 ..With synchronized or controlled local
oscillator
455/209 ...Plural local oscillators or mixers
- 4 455/87 (0 OR, 4 XR)
Class 455 : TELECOMMUNICATIONS
455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.,
TRANSCEIVER)
455/84 .With a common signal processing stage
455/86 ..Transmitter oscillator used as local
oscillator
455/87 ...Tunable or variable
- 3 324/76.19 (1 OR, 2 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/76.11 MEASURING, TESTING, OR SENSING ELECTRICITY, PER
SE
324/76.12 .Analysis of complex waves
324/76.19 ..Frequency spectrum analyzer
- 3 327/113 (0 OR, 3 XR)
Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
DEVICES, CIRCUITS, AND SYSTEMS
327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
327/113 .Frequency or repetition rate conversion or
control
- 3 327/115 (0 OR, 3 XR)
Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
DEVICES, CIRCUITS, AND SYSTEMS
327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
327/113 .Frequency or repetition rate conversion or
control
327/114 ..of output rectangular waveform

327/115 ...Frequency division

3 327/129 (0 OR, 3 XR)
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
 DEVICES, CIRCUITS, AND SYSTEMS
 327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
 327/129 .Generating sinusoidal output

3 327/147 (0 OR, 3 XR)
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
 DEVICES, CIRCUITS, AND SYSTEMS
 327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
 327/141 .Synchronizing
 327/144 ..Using multiple clocks
 327/146 ...With feedback
 327/147Phase lock loop

3 327/551 (0 OR, 3 XR)
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
 DEVICES, CIRCUITS, AND SYSTEMS
 327/524 SPECIFIC IDENTIFIABLE DEVICE, CIRCUIT, OR
 SYSTEM
 327/551 .Unwanted signal suppression

3 327/7 (1 OR, 2 XR)
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
 DEVICES, CIRCUITS, AND SYSTEMS
 327/1 SPECIFIC SIGNAL DISCRIMINATING (E.G.,
 COMPARING, SELECTING, ETC.) WITHOUT SUBSEQUENT CONTROL
 327/2 .By phase
 327/3 ..Comparison between plural inputs (e.g., phase
 angle indication, lead-lag discriminator, etc.)
 327/7 ...With reference signal

3 331/11 (2 OR, 1 XR)
 Class 331 : OSCILLATORS
 331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
 OR FREQUENCY SENSING MEANS
 331/10 .Plural A.F.S. for a single oscillator
 331/11 ..Plural comparators or discriminators

3 331/176 (1 OR, 2 XR)
 Class 331 : OSCILLATORS
 331/175 FREQUENCY STABILIZATION
 331/176 .Temperature or current responsive means in
 circuit

3 331/177R (0 OR, 3 XR)
 Class 331 : OSCILLATORS
 331/177R WITH FREQUENCY ADJUSTING MEANS

3 331/177V (0 OR, 3 XR)
 Class 331 : OSCILLATORS
 331/177R WITH FREQUENCY ADJUSTING MEANS
 331/177V .With voltage sensitive capacitor

3 331/30 (0 OR, 3 XR)
 Class 331 : OSCILLATORS
 331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
 OR FREQUENCY SENSING MEANS
 331/30 .with stable heterodyne oscillator or source

- 3 331/31 (0 OR, 3 XR)
 Class 331 : OSCILLATORS
 331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
 OR FREQUENCY SENSING MEANS
 331/30 .With stable heterodyne oscillator or source
 331/31 ..Plural significant heterodyne stages
- 3 331/43 (0 OR, 3 XR)
 Class 331 : OSCILLATORS
 331/37 BEAT FREQUENCY
 331/42 .With particular signal combining means (e.g.,
 cavity mixer)
 331/43 ..With filter in mixer output circuit
- 3 331/66 (0 OR, 3 XR)
 Class 331 : OSCILLATORS
 331/65 WITH DEVICE RESPONSIVE TO EXTERNAL PHYSICAL
 CONDITION
 331/66 .Temperature or light responsive
- 3 331/96 (2 OR, 1 XR)
 Class 331 : OSCILLATORS
 331/96 WITH DISTRIBUTED PARAMETER RESONATOR
- 3 332/100 (3 OR, 0 XR)
 Class 332 : MODULATORS
 332/100 FREQUENCY SHIFT KEYING MODULATOR OR MINIMUM
 SHIFT KEYING MODULATOR
- 3 332/123 (1 OR, 2 XR)
 Class 332 : MODULATORS
 332/117 FREQUENCY MODULATOR
 332/123 .Including stabilization or alternatively
 distortion, noise or other interference prevention,
 reduction, or compensation
- 3 332/124 (1 OR, 2 XR)
 Class 332 : MODULATORS
 332/117 FREQUENCY MODULATOR
 332/123 .Including stabilization or alternatively
 distortion, noise or other interference prevention,
 reduction, or compensation
 332/124 ..Nonlinearity reduction or compensation
- 3 341/147 (1 OR, 2 XR)
 Class 341 : CODED DATA GENERATION OR CONVERSION
 341/126 ANALOG TO OR FROM DIGITAL CONVERSION
 341/144 .Digital to analog conversion
 341/147 ..Function generator
- 3 342/118 (0 OR, 3 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/118 DETERMINING DISTANCE
- 3 342/175 (0 OR, 3 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/175 WITH PARTICULAR CIRCUIT
- 3 342/195 (0 OR, 3 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES

- 342/175 WITH PARTICULAR CIRCUIT
342/195 .Digital processing
- 3 342/202 (2 OR, 1 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/175 WITH PARTICULAR CIRCUIT
342/202 .For pulse modulation
- 3 342/22 (3 OR, 0 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/22 TRANSMISSION THROUGH MEDIA OTHER THAN AIR OR
FREE SPACE
- 3 370/516 (1 OR, 2 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/473 ..Transmission of a single message having
multiple packets
370/498 .Combining or distributing information via time
channels
370/503 ..Synchronizing
370/516 ...Adjusting for phase or jitter
- 3 375/146 (1 OR, 2 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/130 SPREAD SPECTRUM
375/140 .Direct sequence
375/146 ..Transmitter
- 3 375/216 (0 OR, 3 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/216 APPARATUS CONVERTIBLE TO ANALOG
- 3 375/222 (2 OR, 1 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/219 TRANSCIVERS
375/222 .Modems (data sets)
- 3 375/271 (0 OR, 3 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/259 SYSTEMS USING ALTERNATING OR PULSATING CURRENT
375/271 .Angle modulation
- 3 375/272 (0 OR, 3 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/259 SYSTEMS USING ALTERNATING OR PULSATING CURRENT
375/271 .Angle modulation
375/272 ..Frequency shift keying
- 3 375/279 (0 OR, 3 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/259 SYSTEMS USING ALTERNATING OR PULSATING CURRENT
375/271 .Angle modulation
375/279 ..Phase shift keying
- 3 375/296 (2 OR, 1 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/295 TRANSMITTERS
375/296 .Antinoise or distortion (includes

10761014_CLSTITLES.txt
predistortion)

- 3 375/377 (2 OR, 1 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/377 MISCELLANEOUS
- 3 455/183.2 (1 OR, 2 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/150.1 .Signal selection based on frequency (e.g.,
tuning)
455/179.1 ..Channel or station selection
455/183.1 ...With frequency synthesizer
455/183.2Processor controlled
- 3 455/192.3 (0 OR, 3 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/150.1 .Signal selection based on frequency (e.g.,
tuning)
455/192.1 ..With frequency control
455/192.3 ...Fine tuning
- 3 455/316 (0 OR, 3 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/313 .Frequency modifying or conversion
455/314 ..Plural separate successive conversions
455/315 ...With plural separate local oscillators
455/316With frequency stabilization for at least
one local oscillator
- 3 455/324 (0 OR, 3 XR)
Class 455 : TELECOMMUNICATIONS
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
455/313 .Frequency modifying or conversion
455/323 ..Particular frequency conversion structure or
circuitry
455/324 ...Homodyne (i.e., zero beat or synchrodyne
reception)
- 3 455/67.16 (0 OR, 3 XR)
Class 455 : TELECOMMUNICATIONS
455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS
455/67.11 .Having measuring, testing, or monitoring of
system or part
455/67.16 ..Phase measuring (e.g., group delay,
propagation effect, etc.)
- 3 455/86 (1 OR, 2 XR)
Class 455 : TELECOMMUNICATIONS
455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.,
TRANSCEIVER)
455/84 .With a common signal processing stage
455/86 ..Transmitter oscillator used as local
oscillator
- 3 708/313 (1 OR, 2 XR)

10761014_CLSTITLES.txt

class 708 : ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING
AND CALCULATING
708/100 ELECTRICAL DIGITAL CALCULATING COMPUTER
708/200 .Particular function performed
708/300 ..Filtering
708/313 ...Decimation/interpolation

2 73/19.03 (2 OR, 0 XR)
class 073 : MEASURING AND TESTING
73/19.01 GAS CONTENT OF A LIQUID OR A SOLID
73/19.03 .By vibration

2 73/632 (0 OR, 2 XR)
class 073 : MEASURING AND TESTING
73/570 VIBRATION
73/584 .By mechanical waves
73/596 ..Beamed
73/632 ...Sonic wave transmitter or receiver
transducer

2 73/866.5 (0 OR, 2 XR)
class 073 : MEASURING AND TESTING
73/866.5 PROBE OR PROBE MOUNTING

2 324/307 (0 OR, 2 XR)
class 324 : ELECTRICITY: MEASURING AND TESTING
324/300 PARTICLE PRECESSION RESONANCE
324/307 .Using a nuclear resonance spectrometer system

2 324/309 (2 OR, 0 XR)
class 324 : ELECTRICITY: MEASURING AND TESTING
324/300 PARTICLE PRECESSION RESONANCE
324/307 .Using a nuclear resonance spectrometer system

324/309 ..To obtain localized resonance within a sample

2 324/314 (0 OR, 2 XR)
class 324 : ELECTRICITY: MEASURING AND TESTING
324/300 PARTICLE PRECESSION RESONANCE
324/307 .Using a nuclear resonance spectrometer system

324/314 ..With conditioning of transmitter signal

2 324/326 (0 OR, 2 XR)
class 324 : ELECTRICITY: MEASURING AND TESTING
324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU
324/326 .For small object detection or location

2 324/332 (0 OR, 2 XR)
class 324 : ELECTRICITY: MEASURING AND TESTING
324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU
324/332 .With radiant energy or nonconductive-type
transmitter

2 324/344 (0 OR, 2 XR)
class 324 : ELECTRICITY: MEASURING AND TESTING
324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU
324/344 .With radiant energy or nonconductive-type
receiver

2 324/613 (2 OR, 0 XR)

- Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES
 REPRESENTATIVE OF ELECTRICAL STIMULUS/RESPONSE
 RELATIONSHIPS
 324/612 .Parameter related to the reproduction or
 fidelity of a signal affected by a circuit under test
 324/613 ..Noise
- 2 324/76.12 (0 OR, 2 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/76.11 MEASURING, TESTING, OR SENSING ELECTRICITY, PER
 SE
 324/76.12 .Analysis of complex waves
- 2 324/76.33 (2 OR, 0 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/76.11 MEASURING, TESTING, OR SENSING ELECTRICITY, PER
 SE
 324/76.12 .Analysis of complex waves
 324/76.19 ..Frequency spectrum analyzer
 324/77.11 ...Nonscanning
 324/76.33Correlation
- 2 324/76.35 (0 OR, 2 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/76.11 MEASURING, TESTING, OR SENSING ELECTRICITY, PER
 SE
 324/76.12 .Analysis of complex waves
 324/76.19 ..Frequency spectrum analyzer
 324/77.11 ...Nonscanning
 324/76.35With delay line
- 2 324/76.43 (0 OR, 2 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/76.11 MEASURING, TESTING, OR SENSING ELECTRICITY, PER
 SE
 324/76.39 .Frequency of cyclic current or voltage (e.g.,
 cyclic counting etc.)
 324/76.41 ..Frequency comparison, (e.g., heterodyne,
 etc.)
 324/76.43 ...With plural mixers
- 2 324/76.53 (0 OR, 2 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/76.11 MEASURING, TESTING, OR SENSING ELECTRICITY, PER
 SE
 324/76.39 .Frequency of cyclic current or voltage (e.g.,
 cyclic counting etc.)
 324/76.52 ..By phase comparison
 324/76.53 ...With phase lock
- 2 327/117 (0 OR, 2 XR)
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
 DEVICES, CIRCUITS, AND SYSTEMS
 327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
 327/113 .Frequency or repetition rate conversion or
 control
 327/117 ..Frequency division
- 2 327/119 (0 OR, 2 XR)
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
 DEVICES, CIRCUITS, AND SYSTEMS
 327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING

327/113 .Frequency or repetition rate conversion or control

327/119 ..Frequency multiplication (e.g., harmonic generation, etc.)

2 327/12 (1 OR, 1 XR)
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR DEVICES, CIRCUITS, AND SYSTEMS

327/1 SPECIFIC SIGNAL DISCRIMINATING (E.G., COMPARING, SELECTING, ETC.) WITHOUT SUBSEQUENT CONTROL

327/2 .By phase

327/3 ..Comparison between plural inputs (e.g., phase angle indication, lead-lag discriminator, etc.)

327/12 ...With logic or bistable circuit

2 327/158 (1 OR, 1 XR)
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR DEVICES, CIRCUITS, AND SYSTEMS

327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING

327/141 .Synchronizing

327/155 ..With feedback

327/156 ...Phase lock loop

327/158With variable delay means

2 327/231 (0 OR, 2 XR)
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR DEVICES, CIRCUITS, AND SYSTEMS

327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING

327/231 .Phase shift by less than period of input

2 327/355 (0 OR, 2 XR)
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR DEVICES, CIRCUITS, AND SYSTEMS

327/334 SPECIFIC INPUT TO OUTPUT FUNCTION

327/355 .Combining of plural signals

2 327/9 (0 OR, 2 XR)
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR DEVICES, CIRCUITS, AND SYSTEMS

327/1 SPECIFIC SIGNAL DISCRIMINATING (E.G., COMPARING, SELECTING, ETC.) WITHOUT SUBSEQUENT CONTROL

327/2 .By phase

327/3 ..Comparison between plural inputs (e.g., phase angle indication, lead-lag discriminator, etc.)

327/7 ...With reference signal

327/9With sampling

2 329/306 (0 OR, 2 XR)
 Class 329 : DEMODULATORS

329/304 PHASE SHIFT KEYING OR QUADRATURE AMPLITUDE DEMODULATOR

329/306 .Input signal combined with local oscillator or carrier frequency signal

2 329/323 (0 OR, 2 XR)
 Class 329 : DEMODULATORS

329/315 FREQUENCY MODULATION DEMODULATOR

329/323 .Input signal combined with local oscillator or carrier frequency signal

2 331/107SL (1 OR, 1 XR)

```

Class 331 : OSCILLATORS
331/107R SOLID STATE ACTIVE ELEMENT OSCILLATOR
331/107DP .Significant distributed parameter resonator
          (e.g., cavity)
331/107SL ..Stripline type

2 331/117D (0 OR, 2 XR)
Class 331 : OSCILLATORS
331/107R SOLID STATE ACTIVE ELEMENT OSCILLATOR
331/108R .Transistors
331/117R ..L-C type
331/117D ...Distributed parameter resonator transistor
          oscillators

2 331/12 (0 OR, 2 XR)
Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
        OR FREQUENCY SENSING MEANS
331/10 .Plural A.F.S. for a single oscillator
331/11 ..Plural comparators or discriminators
331/12 ...With phase-shifted inputs

2 331/158 (0 OR, 2 XR)
Class 331 : OSCILLATORS
331/154 ELECTROMECHANICAL RESONATOR
331/158 .Crystal

2 331/175 (0 OR, 2 XR)
Class 331 : OSCILLATORS
331/175 FREQUENCY STABILIZATION

2 331/22 (0 OR, 2 XR)
Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
        OR FREQUENCY SENSING MEANS
331/18 .With reference oscillator or source
331/22 ..Plural significant heterodyne stages

2 331/3 (2 OR, 0 XR)
Class 331 : OSCILLATORS
331/1R AUTOMATIC FREQUENCY STABILIZATION USING A PHASE
        OR FREQUENCY SENSING MEANS
331/3 .Molecular resonance stabilization

2 331/37 (1 OR, 1 XR)
Class 331 : OSCILLATORS
331/37 BEAT FREQUENCY

2 331/38 (0 OR, 2 XR)
Class 331 : OSCILLATORS
331/37 BEAT FREQUENCY
331/38 .Plural beating

2 331/41 (1 OR, 1 XR)
Class 331 : OSCILLATORS
331/37 BEAT FREQUENCY
331/41 .Frequency stabilization

2 331/47 (0 OR, 2 XR)
Class 331 : OSCILLATORS
331/46 PLURAL OSCILLATORS
331/47 .Oscillator used to vary amplitude or frequency
        of another oscillator

```

10761014_CLSTITLES.txt

2 331/56 (0 OR, 2 XR)
 Class 331 : OSCILLATORS
 331/46 PLURAL OSCILLATORS
 331/56 .Parallel connected

2 331/74 (0 OR, 2 XR)
 Class 331 : OSCILLATORS
 331/74 COMBINED WITH PARTICULAR OUTPUT COUPLING
 NETWORK

2 331/77 (0 OR, 2 XR)
 Class 331 : OSCILLATORS
 331/74 COMBINED WITH PARTICULAR OUTPUT COUPLING
 NETWORK
 331/77 .Wave filter

2 331/78 (0 OR, 2 XR)
 Class 331 : OSCILLATORS
 331/78 ELECTRICAL NOISE OR RANDOM WAVE GENERATOR

2 331/94.1 (0 OR, 2 XR)
 Class 331 : OSCILLATORS
 331/94.1 MOLECULAR OR PARTICLE RESONANT TYPE (E.G.,
 MASER)

2 332/104 (0 OR, 2 XR)
 Class 332 : MODULATORS
 332/103 PHASE SHIFT KEYING MODULATOR OR QUADRATURE
 AMPLITUDE MODULATOR
 332/104 .Including logic element (e.g., logic gate or
 flip-flop)

2 332/112 (2 OR, 0 XR)
 Class 332 : MODULATORS
 332/106 PULSE OR INTERRUPTED CONTINUOUS WAVE MODULATOR
 332/112 .Pulse position, frequency, phase, or spacing
 modulator

2 332/125 (1 OR, 1 XR)
 Class 332 : MODULATORS
 332/117 FREQUENCY MODULATOR
 332/123 .Including stabilization or alternatively
 distortion, noise or other interference prevention,
 reduction, or compensation
 332/125 ..Automatic amplitude stabilization or control

2 332/145 (0 OR, 2 XR)
 Class 332 : MODULATORS
 332/144 PHASE MODULATOR
 332/145 .Including amplitude modulator

2 341/118 (1 OR, 1 XR)
 Class 341 : CODED DATA GENERATION OR CONVERSION
 341/118 CONVERTER COMPENSATION

2 342/128 (1 OR, 1 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/118 DETERMINING DISTANCE
 342/128 .With frequency modulation

10761014_CLSTITLES.txt

2 342/134 (0 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/118 DETERMINING DISTANCE
 342/134 .With pulse modulation

2 342/135 (0 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/118 DETERMINING DISTANCE
 342/134 .With pulse modulation
 342/135 ..Digital (e.g., with counter)

2 342/173 (0 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/165 TESTING OR CALIBRATING OF RADAR SYSTEM
 342/173 .By monitoring

2 342/200 (2 OR, 0 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/175 WITH PARTICULAR CIRCUIT
 342/200 .For frequency modulation

2 342/204 (0 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/175 WITH PARTICULAR CIRCUIT
 342/202 .For pulse modulation
 342/204 ..With pulse shaping

2 342/27 (0 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/27 PRESENCE DETECTION ONLY

2 360/51 (2 OR, 0 XR)
 Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR
 RETRIEVAL
 360/39 GENERAL PROCESSING OF A DIGITAL SIGNAL
 360/51 .Data clocking

2 360/61 (0 OR, 2 XR)
 Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR
 RETRIEVAL
 360/55 GENERAL RECORDING OR REPRODUCING
 360/61 .Signal switching

2 370/337 (2 OR, 0 XR)
 Class 370 : MULTIPLEX COMMUNICATIONS
 370/310 COMMUNICATION OVER FREE SPACE
 370/328 .Having a plurality of contiguous regions
 served by respective fixed stations
 370/329 ..Channel assignment
 370/336 ...Combining or distributing information via
 time channels
 370/337Multiple access (e.g., TDMA)

2 372/18 (1 OR, 1 XR)
 Class 372 : COHERENT LIGHT GENERATORS
 372/9 PARTICULAR BEAM CONTROL DEVICE

10761014_CLSTITLES.txt

372/18 .Mode locking

2 375/130 (0 OR, 2 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/130 SPREAD SPECTRUM

2 375/140 (0 OR, 2 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/130 SPREAD SPECTRUM
 375/140 .Direct sequence

2 375/147 (0 OR, 2 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/130 SPREAD SPECTRUM
 375/140 .Direct sequence
 375/147 ..Receiver

2 375/274 (0 OR, 2 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/259 SYSTEMS USING ALTERNATING OR PULSATING CURRENT

375/271 .Angle modulation
 375/272 ..Frequency shift keying
 375/274 ...Minimum shift keying

2 375/297 (2 OR, 0 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/295 TRANSMITTERS
 375/296 .Antinoise or distortion (includes
 predistortion)
 375/297 ..Power amplifier

2 375/298 (0 OR, 2 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/295 TRANSMITTERS
 375/298 .Quadrature amplitude modulation

2 375/302 (0 OR, 2 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/295 TRANSMITTERS
 375/302 .Angle modulation

2 375/305 (1 OR, 1 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/295 TRANSMITTERS
 375/302 .Angle modulation
 375/303 ..Frequency shift keying
 375/305 ...Minimum shift keying

2 375/306 (0 OR, 2 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/295 TRANSMITTERS
 375/302 .Angle modulation
 375/303 ..Frequency shift keying
 375/306 ...One oscillator

2 375/307 (0 OR, 2 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/295 TRANSMITTERS
 375/302 .Angle modulation
 375/303 ..Frequency shift keying
 375/307 ...Two or more oscillators

- 2 375/316 (2 OR, 0 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/316 RECEIVERS
- 2 375/317 (0 OR, 2 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/316 RECEIVERS
 375/317 .Automatic baseline or threshold adjustment
- 2 375/324 (0 OR, 2 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/316 RECEIVERS
 375/322 .Angle modulation
 375/324 ..Particular demodulator
- 2 375/346 (1 OR, 1 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/316 RECEIVERS
 375/346 .Interference or noise reduction
- 2 375/350 (2 OR, 0 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/316 RECEIVERS
 375/346 .Interference or noise reduction
 375/350 ..By filtering (e.g., digital)
- 2 375/367 (1 OR, 1 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/354 SYNCHRONIZERS
 375/362 .Frequency or phase control using synchronizing
 signal
 375/365 ..Synchronization word
 375/367 ...Pseudo noise
- 2 375/372 (1 OR, 1 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 375/354 SYNCHRONIZERS
 375/371 .Phase displacement, slip or jitter correction
 375/372 ..Elastic buffer
- 2 377/44 (0 OR, 2 XR)
 Class 377 : ELECTRICAL PULSE COUNTERS, PULSE DIVIDERS, OR
 SHIFT REGISTERS: CIRCUITS AND SYSTEMS
 377/27 SYSTEMS
 377/44 .Counter controlled counter
- 2 377/47 (1 OR, 1 XR)
 Class 377 : ELECTRICAL PULSE COUNTERS, PULSE DIVIDERS, OR
 SHIFT REGISTERS: CIRCUITS AND SYSTEMS
 377/27 SYSTEMS
 377/47 .Pulse multiplication or division
- 2 455/126 (0 OR, 2 XR)
 Class 455 : TELECOMMUNICATIONS
 455/91 TRANSMITTER
 455/126 .With feedback of modulated output signal
- 2 455/164.2 (1 OR, 1 XR)
 Class 455 : TELECOMMUNICATIONS
 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
 CONVERTER
 455/150.1 .Signal selection based on frequency (e.g.,

10761014_CLSTITLES.txt
tuning)

- 455/161.1 ..Frequency scanning
- 455/164.1 ...With automatic frequency control
- 455/164.2Processor controlled (AFC)
- 2 455/208 (0 OR, 2 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
 - 455/205 .Frequency or phase modulation
 - 455/208 ..With synchronized or controlled local oscillator
- 2 455/226.1 (1 OR, 1 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
 - 455/226.1 .Measuring or testing of receiver
- 2 455/265 (1 OR, 1 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
 - 455/230 .Local control of receiver operation
 - 455/255 ..Local oscillator frequency control
 - 455/257 ...Automatic
 - 455/265With local oscillator synchronization or locking
- 2 455/3.02 (1 OR, 1 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/3.01 WIRELESS DISTRIBUTION SYSTEM
 - 455/3.02 .Receiver for satellite broadcast
- 2 455/304 (0 OR, 2 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
 - 455/296 .Noise or interference elimination
 - 455/303 ..Using plural separate signal paths
 - 455/304 ...Phase shift in at least one path
- 2 455/310 (0 OR, 2 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
 - 455/296 .Noise or interference elimination
 - 455/310 ..Internally generated noise or oscillations
- 2 455/313 (0 OR, 2 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
 - 455/313 .Frequency modifying or conversion
- 2 455/42 (0 OR, 2 XR)
 - Class 455 : TELECOMMUNICATIONS
 - 455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS
 - 455/42 .Frequency or phase modulation
- 2 455/67.13 (0 OR, 2 XR)
 - Class 455 : TELECOMMUNICATIONS

- 455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS
- 455/67.11 .Having measuring, testing, or monitoring of
system or part
- 455/67.13 ..Noise, distortion, or unwanted signal
detection (e.g., quality control, etc.)
- 2 455/71 (0 OR, 2 XR)
Class 455 : TELECOMMUNICATIONS
455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS
- 455/68 .With control signal
- 455/70 ..Receiver control signal originates at message
transmitter
- 455/71 ...Frequency control
- 2 455/75 (0 OR, 2 XR)
Class 455 : TELECOMMUNICATIONS
455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.,
TRANSCEIVER)
- 455/75 .With frequency stabilization (e.g., automatic
frequency control)
- 2 455/77 (0 OR, 2 XR)
Class 455 : TELECOMMUNICATIONS
455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.,
TRANSCEIVER)
- 455/77 .With tuning
- 2 455/84 (0 OR, 2 XR)
Class 455 : TELECOMMUNICATIONS
455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.,
TRANSCEIVER)
- 455/84 .With a common signal processing stage
- 2 702/69 (1 OR, 1 XR)
Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR
TESTING
- 702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT
- 702/57 .Electrical signal parameter measurement system
- 702/66 ..Waveform analysis
- 702/69 ...Signal quality (e.g., timing jitter,
distortion, signal-to-noise ratio)
- 2 702/75 (1 OR, 1 XR)
Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR
TESTING
- 702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT
- 702/57 .Electrical signal parameter measurement system
- 702/66 ..Waveform analysis
- 702/75 ...Frequency
- 2 708/272 (0 OR, 2 XR)
Class 708 : ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING
AND CALCULATING
- 708/100 ELECTRICAL DIGITAL CALCULATING COMPUTER
- 708/200 .Particular function performed
- 708/270 ..Function generation
- 708/272 ...Memory used to store waveshape
- 2 725/68 (0 OR, 2 XR)

10761014_CLSTITLES.txt
class 725 : INTERACTIVE VIDEO DISTRIBUTION SYSTEMS
725/63 SATELLITE VIDEO DISTRIBUTION SYSTEM
725/68 .Receiver

ability 1
 above 5
 abstract 1
 accompanying 1
 accomplished 1
 accordance 2
 according 2
 achieved 2
 acquisition 1
 across 1
 adaptable 1
 added 1
 additional 1
 adjust 1
 adjustable 1
 adjusted 1
 adjusting 2
 advance 1
 advantages 2
 after 7
 against 1
 aircraft 1
 allows 2
 also 8
 alternative 1
 ambiguity 1
 among 2
 amplitude 1
 an 28
 analog 6
 and 112
 another 6
 antenna 2
 any 3
 aperture 4
 apparatus 1
 apparent 1
 appears 1
 appended 1
 application 1
 applications 2
 appreciated 2
 approach 5
 approaches 2
 appropriate 1
 arbitrary 1
 architecture 1
 arcsine 1
 are 14
 arrangement 3
 art 3
 artisan 2
 as 25
 asic 1
 assignee 1
 associated 7
 at 22
 attorney 2
 auxiliary 1
 available 1
 averaging 1
 azimuth 1
 background 2

band 2
 bandwidth 1
 base 4
 based 4
 be 40
 because 3
 become 1
 been 1
 before 9
 beginning 2
 begins 1
 being 1
 below 2
 benefit 2
 between 18
 block 5
 blocks 1
 board 1
 both 1
 break 2
 brief 1
 brown 1
 but 3
 by 35
 calculate 1
 calculated 1
 calibrated 2
 calibrating 5
 calibration 16
 calibrator 4
 can 1
 capable 1
 carrier 3
 cascaded 2
 caused 1
 certainly 1
 challenge 1
 change 2
 changing 1
 chip 1
 chirp 21
 chirps 1
 choice 1
 circuit 1
 circuits 3
 claims 1
 clock 2
 coarse 10
 coast 1
 coasting 11
 coherency 1
 combination 1
 combinations 1
 combine 2
 combined 2
 combines 2
 combining 1
 come 1
 communication 3
 compared 1
 comparing 2
 complete 1
 components 6

compounded 1
comprises 1
comprising 1
concurrently 1
conditions 2
configuration 1
connected 6
connecting 1
consequently 1
constant 1
construed 1
content 1
continues 1
continuity 6
continuous 25
control 5
controllably 2
controlled 4
controller 14
controlling 1
controls 1
convenient 1
conventional 3
converter 13
converters 5
convey 1
copenning 1
correlated 1
correlation 3
corresponding 1
could 1
coupled 8
coupling 1
course 1
cover 1
created 8
creates 1
creating 2
cross 4
currently 1
data 2
dds 32
decoded 1
define 1
defined 1
degradation 2
degrees 3
described 9
describing 1
description 3
descriptions 1
desired 2
detail 3
detailed 2
details 2
detector 2
determine 3
determines 1
determining 1
deviation 1
diagram 10
diagrammatically 1
difference 5

different 16
digital 16
digitally 1
dimension 3
direct 3
directed 2
disclosed 2
disclosure 3
disclosures 1
discontinuities 15
discontinuity 1
discussed 2
distorts 1
disturbance 1
disturbances 2
divider 4
division 1
do 1
docket 2
does 1
downstream 3
drawings 4
drift 1
due 2
duration 1
during 23
each 4
efficient 1
either 2
elements 3
eliminated 1
embodied 1
embodiment 5
embodiments 8
end 1
enlarged 2
entire 2
entirety 1
entitled 1
equal 8
equals 1
equipment 1
error 5
errors 1
established 1
even 1
exact 1
example 9
except 1
exhibit 1
external 1
facilitates 1
factor 1
factors 1
fast 1
features 3
feedback 4
field 2
fig 10
figs 2
figure 1
filed 1
filter 3

fine 9
finest 2
first 16
fixed 2
fm 1
fo 1
foff 14
following 1
for 18
foregoing 2
forms 1
forth 1
four 1
frequencies 5
frequency 140
from 19
fully 3
function 1
functional 1
fx 6
gain 2
gcsd 17
generate 4
generated 4
generates 2
generating 8
generator 17
generators 1
ghz 1
good 1
granularity 2
greater 1
ground 1
grouping 1
hand 1
hardware 1
has 4
have 3
having 4
here 1
herein 3
hereinafter 1
herewith 1
high 8
higher 3
highest 1
holds 1
however 4
ibrating 1
ideal 2
ieee 1
if 1
ifs 1
illustrate 1
illustrated 4
illustrating 1
illustration 1
image 2
imagery 1
implementation 1
implemented 1
improves 1
in 39

include 4
included 2
includes 9
including 6
incorporated 1
increase 3
increased 1
indicate 1
induced 1
infinite 1
initial 1
initially 2
input 4
inputs 7
instances 1
instant 3
instantaneous 2
integrated 1
integrators 4
intended 3
interval 6
introduction 1
invention 25
involves 1
is 79
isolation 1
its 6
kand 1
key 1
known 1
kushner 1
large 1
like 3
limit 2
limited 2
limiting 1
linear 1
linearization 1
linearly 2
little 1
lmmary 1
local 1
located 1
locked 6
lookup 1
loop 10
loss 1
low 5
lowest 2
made 4
maintain 1
major 1
make 2
manner 1
many 2
match 1
mathematical 1
maximize 1
may 20
means 1
meant 2
measured 4
measurements 3

method 5
methods 3
mhz 8
mind 1
minimize 1
mirror 1
mirrored 2
mission 2
mixer 14
mixing 1
modifications 2
modular 2
modulated 2
modulation 2
more 4
motion 1
multiple 1
multiplication 2
multiplications 1
multiplier 1
multiply 1
multiplying 1
narrow 1
near 1
need 1
needed 3
negative 2
new 3
next 3
no 4
noise 2
non 2
normally 3
not 10
notation 1
noted 1
now 3
nphase 1
numbers 1
object 1
objects 2
obscure 1
occur 1
of 133
offer 1
offset 43
on 7
one 4
only 1
open 1
opens 1
operation 4
operations 1
operative 4
optimal 1
or 12
order 3
oscillator 4
oscillators 1
other 6
out 3
output 35
over 5

overall 1
overview 1
packaged 1
page 17
pages 1
particular 2
particularly 1
pass 3
patent 1
performance 2
pertinent 1
phase 103
platform 2
pll 10
plo 7
plurality 7
plus 1
point 3
pointed 1
points 1
porcello 1
portion 2
possible 1
post 3
power 5
practical 1
pre 6
precise 1
preferably 4
preferred 2
prescribed 1
present 19
presented 1
pretune 1
previous 3
primarily 2
prime 1
principles 1
problem 1
proceeds 1
processing 3
processor 1
produce 12
produced 10
produces 2
product 1
provide 5
provided 9
provides 5
providing 3
pulse 2
pure 1
purity 1
purpose 1
purposes 1
put 1
quadratic 1
radar 5
radiation 2
radio 1
ralibrating 1
ramp 8
ramps 1

range 22
rat 1
rates 1
rather 2
reaching 2
readily 4
realize 1
receive 2
receiver 1
receiving 9
reduce 11
reduced 2
refer 1
reference 17
referenced 1
referring 5
refertnce 1
reflected 1
reflection 1
region 1
relates 1
relative 1
relatively 18
removed 1
require 1
required 2
requiremenfs 1
reset 1
resides 1
resolution 4
resolve 1
resolves 1
respective 4
respectively 1
response 1
restarted 1
result 1
return 3
returned 1
returns 1
rf 3
rmhodiments 1
rrrquency 1
same 2
sar 8
satellite 1
schematic 3
schematically 1
scope 2
second 18
selects 1
self 7
september 1
sequentially 1
serrodyne 1
set 6
sets 2
settings 1
settling 1
short 1
should 4
show 1
shown 2

shows 1
side 1
signal 66
signals 16
similar 1
simplified 1
since 2
skilled 5
smoothed 1
so 9
source 1
specific 3
spectral 2
spectrum 1
speed 2
spurious 1
sqt 1
stairstep 1
standard 1
static 1
step 1
stepped 1
steps 1
successive 1
successively 17
such 8
suffer 1
sum 5
supplied 4
sweep 9
sweeping 1
swept 29
switch 24
switched 13
switches 7
switching 47
synchronize 1
synthesis 1
synthesizer 40
synthesizing 1
synthetic 3
system 3
systems 4
table 1
taken 1
teachings 1
technique 1
techniques 1
technologies 1
temperature 1
term 1
than 3
that 19
the 363
their 4
then 2
there 1
therefor 1
therefore 3
thereupon 1
these 2
they 1
third 2

this 9
thorough 1
those 5
through 3
throughout 1
thus 3
time 11
timing 4
tl 2
to 123
tolerant 1
track 1
transient 3
transients 4
transition 2
transitions 1
translation 3
transmit 2
transmitter 1
tune 8
tuned 1
tuning 5
typical 1
typically 5
under 5
understandable 1
understood 3
undesired 14
unfortunately 1
unit 6
up 3
uphase 1
upon 5
upper 1
use 2
used 7
using 2
utilized 1
value 1
various 3
varying 1
vco 1
via 2
view 1
views 1
voltage 2
waveform 1
waveforms 2
well 2
were 1
when 2
whenever 1
where 1
which 19
while 4
wide 1
wideband 15
widen 1
widerahd 2
width 1
wifh 1
will 13
with 22

10761014_WDS.txt

within 4
without 2
words 2
would 8
yet 1
zero 5